CONTENTS

Tectonophysics Volume 161

Research Papers

The Caucasus: an actual example of the initial stages of continental collision
Philip, H. (Montpellier, France), Cisternas, A. (Strasbourg, France), Gvishiani, A. and Gorshkov, A. (Moscow, U.S.S.R.) 1

Dikes, joints, and faults in the upper mantle
Wilshire, H.G. and Kirby, S.H. (Menlo Park, Calif., U.S.A.) 23

On the high heat flow in the Nankai Trough area—a simulation study on a heat rebound process
Nagihara, S., Kinoshita, H. (Chiba, Japan) and Yamano, M. (Tokyo, Japan) 33

Anhysteretic remanent magnetic anisotropy and calcite strains in Devonian carbonates from the Appalachian Plateau, New York
Jackson, M., Craddock, J.P., Ballard, M., Van der Voo, R. (An Arbor, Mich., U.S.A.) and McCabe, C. (Baton Rouge, La., U.S.A) 43

Discussion

Physical properties of the variation of the electric field of the earth preceding earthquakes – discussion
Drakopoulos, J., Stavrakakis, G. and Latoussakis, J. (Athens, Greece) 55

– reply
Varotsos, P. and Alexopoulos, K. (Athens, Greece) 58

Special section on Developments in Tectonics of the Alpine Tethys (edited by L.E. Ricou and D. Heimcke)

Introduction 64

Geology and geochronology of the Arnea, Sithonia and Ouranopolis intrusions, Chalkidiki Peninsula, northern Greece
De Wet, A.P., Miller, J.A., Bickle, M.J. and Chapman, H.J. (Cambridge, England) 65

Shear-sense criteria in the Antalya and Alanya thrust system (southwestern Turkey): evidence for a southward movement
Marcoux, J., Ricou, L.E. (Paris, France), Burg, J.P. (Montpellier, France) and Brun, J.P. (Rennes, France) 81

The Dras arc: two successive volcanic events on eroded oceanic crust
Reuber, I. (Poitiers, France) 93

Magmatic and tectonic evolution of the Ladakh Block from field studies
Raz, U. (Bern, Switzerland) and Honegger, K. (Zurich, Switzerland) 107

The Sulu Sea, a back-arc basin setting within a Neogene collision zone
Rangin, C. (Paris, France) 119

Special issue on Growth of the Continental Crust (edited by L.D. Ashwal)

Introduction
Ashwal, L.D. (Houston, Tex., U.S.A.) 143

Growth of planetary crusts
Taylor, S.R. (Canberra, Australia) 147

Chronology and complexity of early lunar crust
Dasch, E.J. (Corvallis, Oreg., U.S.A.), Ryder, G. and Nyquist, L.E. (Houston, Tex., U.S.A.) 157

Growth of the continental crust: a planetary-mantle perspective
Warren, P.H. (Los Angeles, Calif., U.S.A.) 165

An open boundary between lower continental crust and mantle: its role in crust formation and crustal recycling
Arndt, N.T. and Goldstein, S.L. (Mainz, F.R.G.) 201

Crustal evolution and the granulite to eclogite transition in xenoliths from kimberlites in the West African Craton
Toft, P.B., Hills, D.V. and Haggerty, S.E. (Amherst, Mass., U.S.A.) 213

Deep seismic reflection profiling and the growth of the continental crust
Klemperer, S.L. (Cambridge, U.K.) 233

Sm–Nd evidence for diachronous crustal accretion in the Lewisian complex of northwest Scotland
Whitehouse, M.J. (Oxford, Great Britain) 245

Crustal reworking in southern Africa: constraints from Sr–Nd isotope studies in Archaean to Pan-African terrains
McDermott, F., Harris, N.B.W. and Hawkesworth, C.J. (Milton Keynes, Great Britain) 257
Growth of early Archaean crust in the Ancient Gneiss Complex of Swaziland as revealed by single zircon dating
Kröner, A., Compston, W. (Mainz, F.R.G.) and Williams, I.S. (Canberra, A.C.T., Australia) 271
Sm/Nd constraints on the growth rate of continental crust
Albarède, F. (Vandoeuvre, France) 299
Ridge collision at convergent margins: implications for Archean and post-Archean crustal growth
Nelson, E.P. (Golden, Colo., U.S.A.) and Forsythe, R.D. (New Brunswick, N.J., U.S.A.) 307
Effects of synchronous uplift and intrusion during magmatic arc construction
Bruce, R.M., Nelson, E.P. and Weaver, S.G. (Golden, Colo., U.S.A.) 317
Crustal growth associated with anorogenic, mid-Proterozoic anorthosite massifs in northeastern North America
McLelland, J.M. (Hamilton, N.Y., U.S.A.) 331
How the growth and freeboard of continents may relate to geometric and kinematic parameters of mid-ocean spreading ridges
Howell, D.G. (Menlo Park, Calif., U.S.A.) 343